

What is claimed is:

1. A method for purifying polymer-containing alkyl ester-based solvent comprising the steps of
  - a) feeding said polymer-containing alkyl ester based solvent into a centrifuge;
  - 5 b) centrifuging said polymer-containing alkyl ester based solvent to separate the polymer from the alkyl ester based solvent resulting in a polymer-free alkyl ester based solvent; and
  - c) removing said polymer-free alkyl ester based solvent from the centrifuge.
- 10 2. The method of claim 1, wherein the steps comprises a continuous process.
3. The process of claim 1, wherein the process is a batch process.
4. The method of claim 1, wherein the alkyl ester is alkyl ester of fatty acids with  
15 8-18 carbons.
5. The method of claim 1, wherein the polymer is selected from the group consisting of block co-polymers of styrene and butadiene, block co-polymers of styrene and isoprene, co-polymers of butadiene and acrylonitrile, terpolymers of  
20 butadiene, acrylonitrile, and acrylic acid.
6. The method of claim 1, wherein said alkyl ester based solvent comprises at least one alkyl ester.

7. The method of claim 6, wherein said alkyl ester based solvent further comprises a co-solvent.
8. The method of claim 7, wherein said alkyl ester based solvent further comprises a non-solvent.
9. The method of claim 1, wherein the centrifuge is a bowl disc centrifuge with conical discs.
10. The method of claim 1, wherein the centrifuging step is performed at g forces of at least about 4000.
11. The method of claim 1, wherein the alkyl ester based solvent is maintained at about 70°F.
12. The method of claim 1, wherein the alkyl group of the alkyl ester has 1 to 12 carbon atoms.